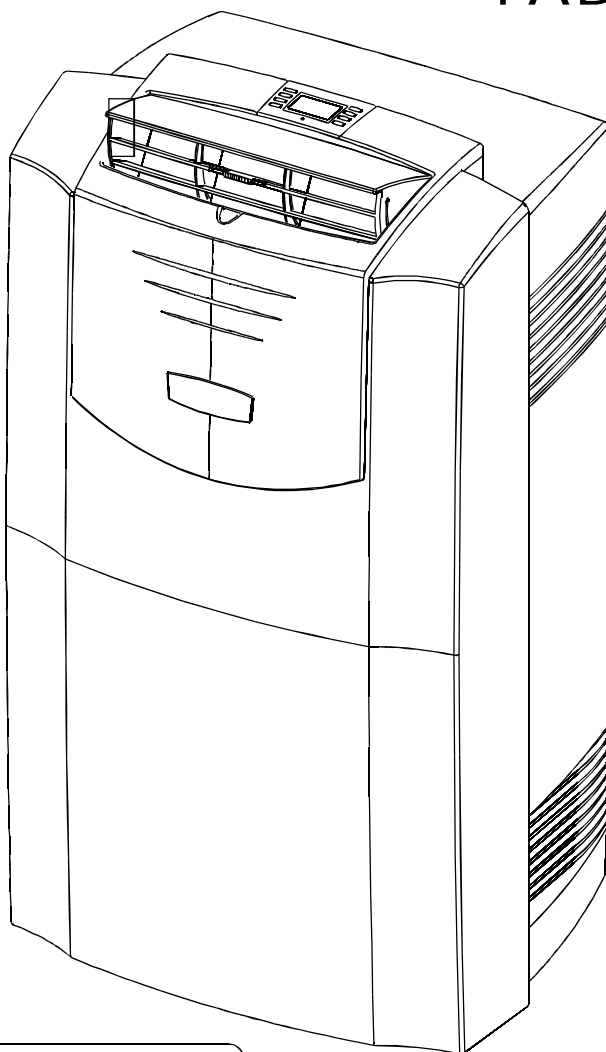


SERVICE MANUAL

AIR CONDITIONER

TAD-T32G



Important points on service, and flow chart for inspecting and repairing the unit.....	1
Appearance(out ward).....	2
Troubleshooting.....	3
Operation.....	4-5
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Refrigerator system diagram and schematic wiring diagram.....	7
Exploded view.....	8
Parts list.....	9-10

This manual is for the use of technical personnel entrusted with maintenance.

Widetech reserves the right to change this dehumidifier's casing, circuit and parts without notice.

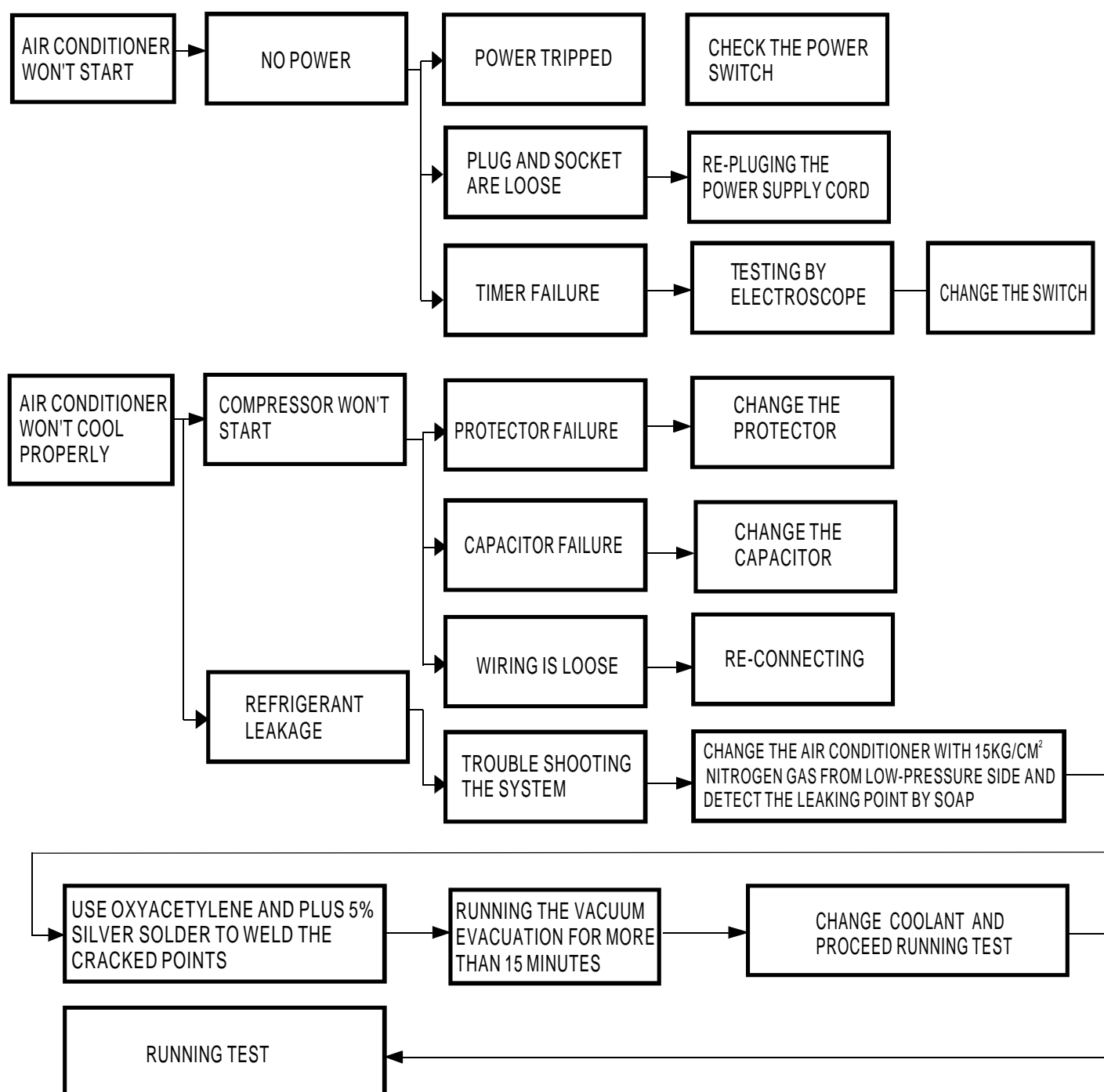
115 V / 60 Hz

IMPORTANT POINTS ON SERVICE OPERATING SAFETY

Please follow these instructions carefully:

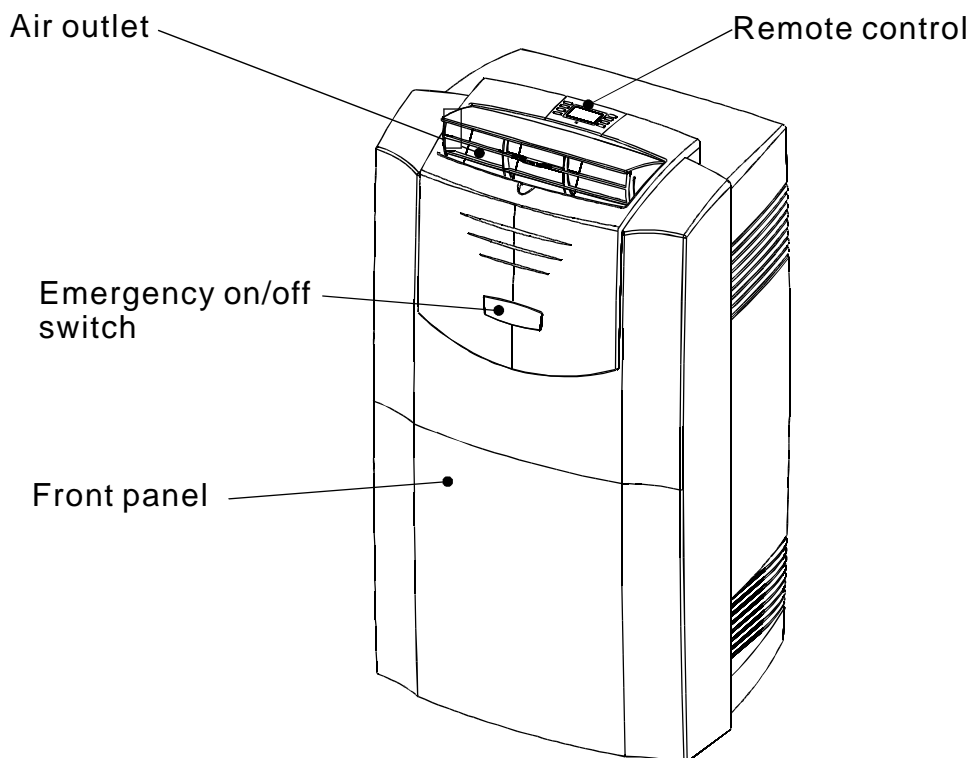
- Unplug the unit to avoid any danger from electric shock before disassembling the unit for repair.
- If there is any sound of the refrigerant circulating when in operation, avoid touching the cooling coils.
- If you need to perform any welding or soldering, be sure you are in a well ventilated area.
- Only a qualified professional should perform any welding on the unit.
- When repairing the unit, the specifications listed in this manual must be strictly adhered to when replacing any components.
- When replacing any electrical components they should be factory approved units.
- Be sure that any electrical components are properly wired and in place.

FLOW CHART FOR INSPECTING AND REPAIRING THE UNIT



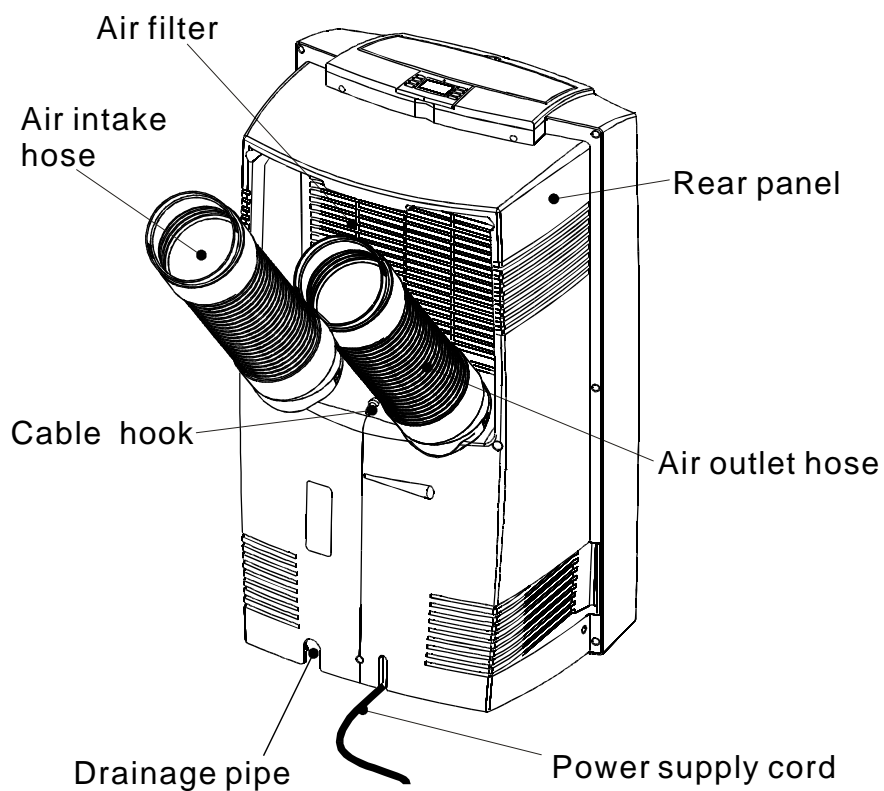
APPEARANCE(OUT WARD)

FRONT SIDE



APPEARANCE(OUT WARD)

BACK SIDE



ACCESSORIES



Exhaust duct connector



Exhaust hose



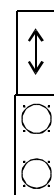
Exhaust nozzle connector



Fix ture



Cover

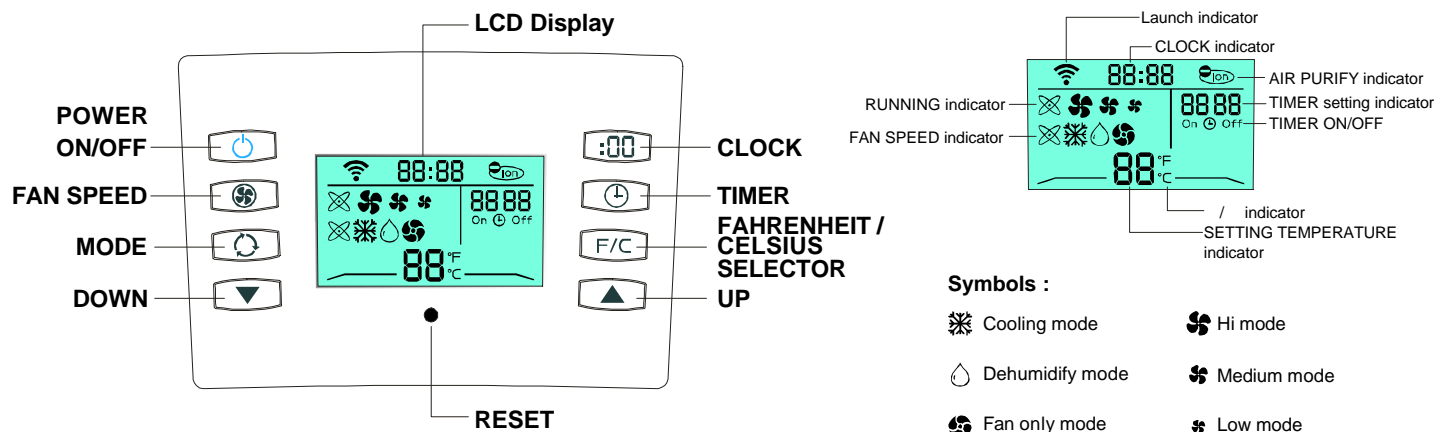


Window panel

TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	REMEDIES
The air conditioner doesn't work	<ul style="list-style-type: none"> -There is a power failure -The plug is not connected -The timer is unable to work -The main switch has not been pressed 	<ul style="list-style-type: none"> -Wait for the power return -Connect the plug -Provide repairment -Press the main switch
The air conditioner works for short period only	<ul style="list-style-type: none"> -The set temperature is too close to the room's temperature -There is something blocking the suction vent on the back of condenser -The fan on the condenser is blocked 	<ul style="list-style-type: none"> -Decrease the setting temperature -Remove any obstacles -Provide repairment
The air conditioner switches are off constantly	<ul style="list-style-type: none"> -Malfunction 	<ul style="list-style-type: none"> -Turn off the appliance remove the plug and contact the service center
The air conditioner works but it does not cool the room	<ul style="list-style-type: none"> -There is a window opened -There is a source of heat operating in the room (burner, lamp, etc.), or the room is crowded -The air filter is clogged -The capacity of the air conditioner is not suitable for the conditions or size of the room -The evaporator is frozen 	<ul style="list-style-type: none"> -Close the window -Remove/switch off the source of heat -Decrease the set temperature -Clean the filter -Clean the air filter -Change the purifier filter, if necessary -Do not make the appliance operating at too low temperature(below22℃)
The appliance is very noisy and vibrates violently	<ul style="list-style-type: none"> -The compressor blocking device has been loosen or the copper pipe is getting in touch with the body of the set 	<ul style="list-style-type: none"> -Provide repairment

CONTROL PANEL



Power Control

The power control turns the unit on and off.

Fahrenheit/Celsius Selector

Press F/C Selector switch to or setting.

Note: Initial setting is

Reset

Press RESET BUTTON, unit will delete the memory of running hours and re-count from 0.

Mode Control

The Mode Control has 4 settings:

Cool Dehumidify Fan Auto

The settings are adjusted by Mode Control button.

Cooling Mode

During the cooling mode the air is cooled and hot air is exhausted to the outside air through the exhaust tube. Adjust fan speed and temperature to suit your desired comfort level.

Note : The air exchange hoses must vent outside the room when using Cool Mode.

Dehumidify Mode

Air is dehumidified as it passes through air conditioner, without being in full cooling mode. The fan will operate in med speed. Fan speed is not adjustable in dehumidify mode.

Note : The warm air exchange hoses must vent inside the room when using Dehumidify Mode, not outside as it does when cooling. If the unit is vented outside some cooling will occur.

Fan Mode

Air is circulated throughout the room with no cooling.

Note: unit does not need to be vented in Fan Mode.

Auto Mode

To turn on the unit chooses "Auto" mode. The unit will switch its mode and fan speed automatically base on the environment temperature.

Fan Speed Control

The Fan Speed Control has 4 settings: Auto, High, Medium, and Low.

Temp Set Controls

Press " " or " " to set temperature, The setting range is from 18 ~32 .

Note: When choose AUTO, DEHUMIDIFY or FAN MODE, temperature setting button invalid.

Clock set controls

Press CLOCK button, LCD clock display flashes. Press " " or " ". In every holding second, LCD clock display changes setting by 1 min interval.

Press " " or " " and holding more than 1 second, the LCD clock display changes setting by 30 min interval.

When complete setting, press CLOCK button again to confirm the setting. LCD CLOCK display stops flashing.

Timer set controls

When unit is running and press TIMER button, TIMER "off"
When unit is stand-by and press TIMER button, TIMER "on"
To cancel TIMER "off" or TIMER "on", simply press POWER ON/OFF button.

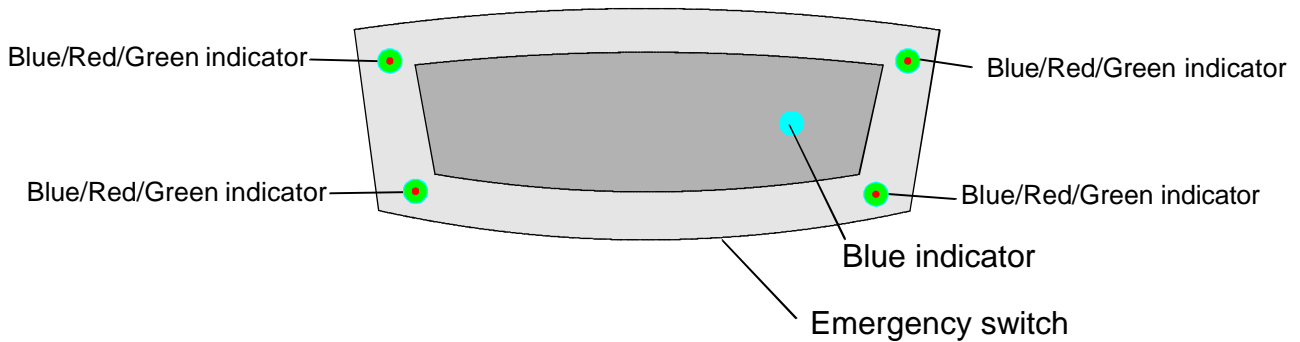
"00" = No timer setting.

Timer setting range is 1~12 hours.

Note:

When press remote control and got no response, please check battery installation properly or out of electricity. Press on/off button for 8 seconds. When units show 2nd alarm beep, press any key on remote control and check if remote control functions alright, setting completed, If not, please repeat above step.

After switching the air conditioner off, you must wait 3 minutes before switching it back on again.



Emergency ON/OFF Switch

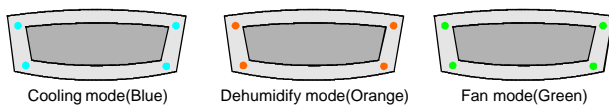
This switch is used when unit needs temporary on/off. When press emergency button, unit starts running. The running mode and fan speed mode are set at auto. Press emergency button again, unit stops running.

LED Screen

Please refer to below chart for detail.

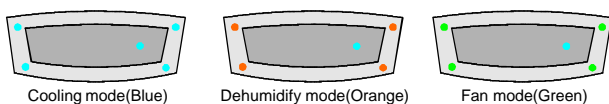
Note: Orange LED presents Red/Green lights up simultaneously.

Running mode



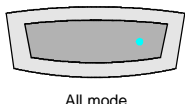
Note: Under AUTO mode, unit will change its running mode.

Running and TIMER "off"



Note: Under AUTO mode, unit will change its running mode.

Stand-by and TIMER "on"

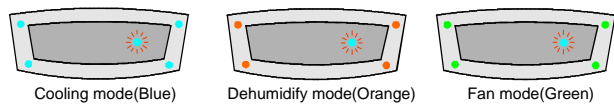


Water tank full



Note: Water tank full, red LED indicator flashes. When water full, unit stops running, After discharge water from tank, please press power on/off button to operate the units and unit will be in the mode before water tank full.

Fiter Cleaning Indicator



Note:

1. Display only when in running mode.
2. When unit is running, clean indicator lights, please clean filter, After cleaned, press reset button on remote control or press on/off button on unit for 4 seconds to delete the clean indicator lights. The setting is completed after one beep.

Default indicator

- Trouble shooting when environmental temperature indicator failures:



Please check the environmental temperature indicator on PCB if it's assembled properly and no wires loosen.

- Trouble shooting when coil tube temperature indicator failures:



Please check the environmental temperature indicator on PCB if it's assembled properly and no wires loosen.

- EEPROM failure:



After units turns on, it will check EEPROM every 4 minutes. If continuous failure for 5 times, it will be indicated "failure". When perform EEPROM checking next time and get normal feedback, the operation will go back to normal. If not, need to replace PCB.

- Water full switch alarm indicator:



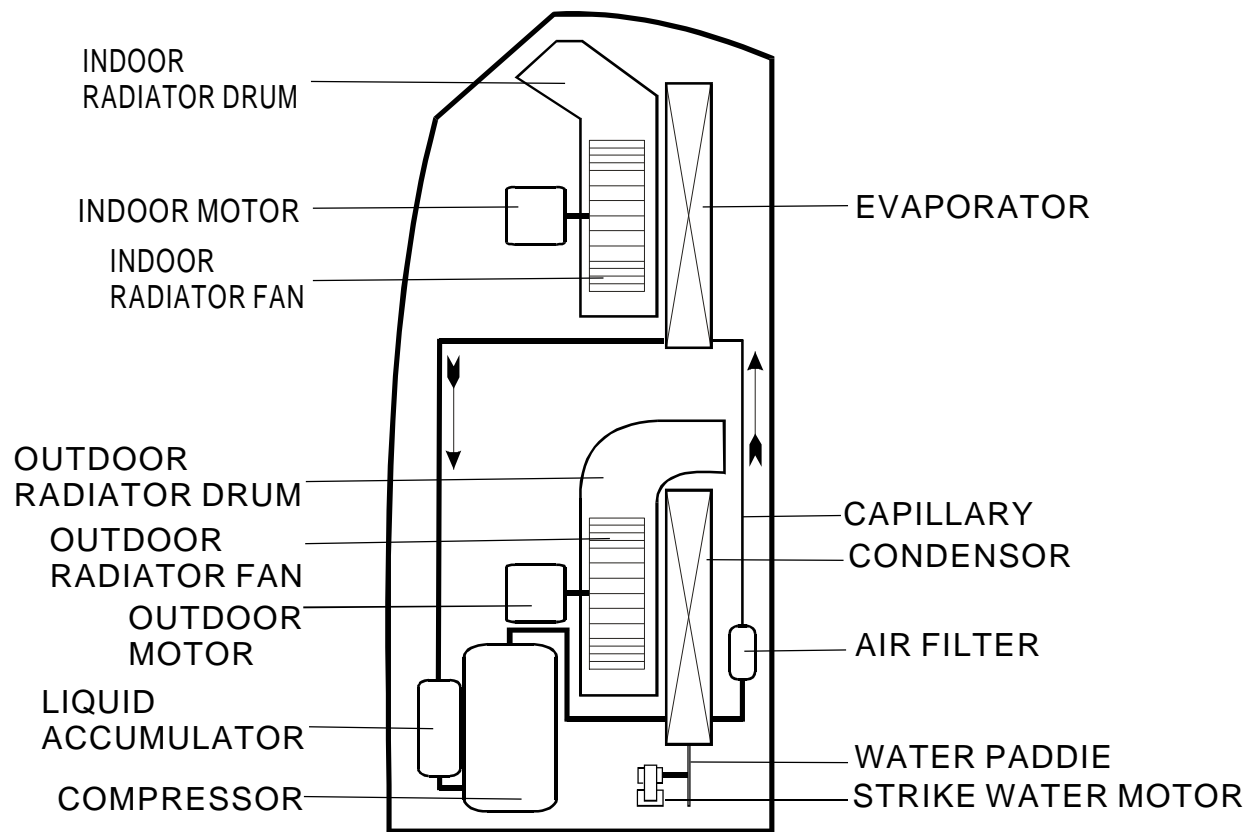
Drain the water into a prepared container by the drainage pipe on the rear panel of the unit. If still doesn't work, please consult a qualified technician.

TECHNICAL SPECIFICATIONS

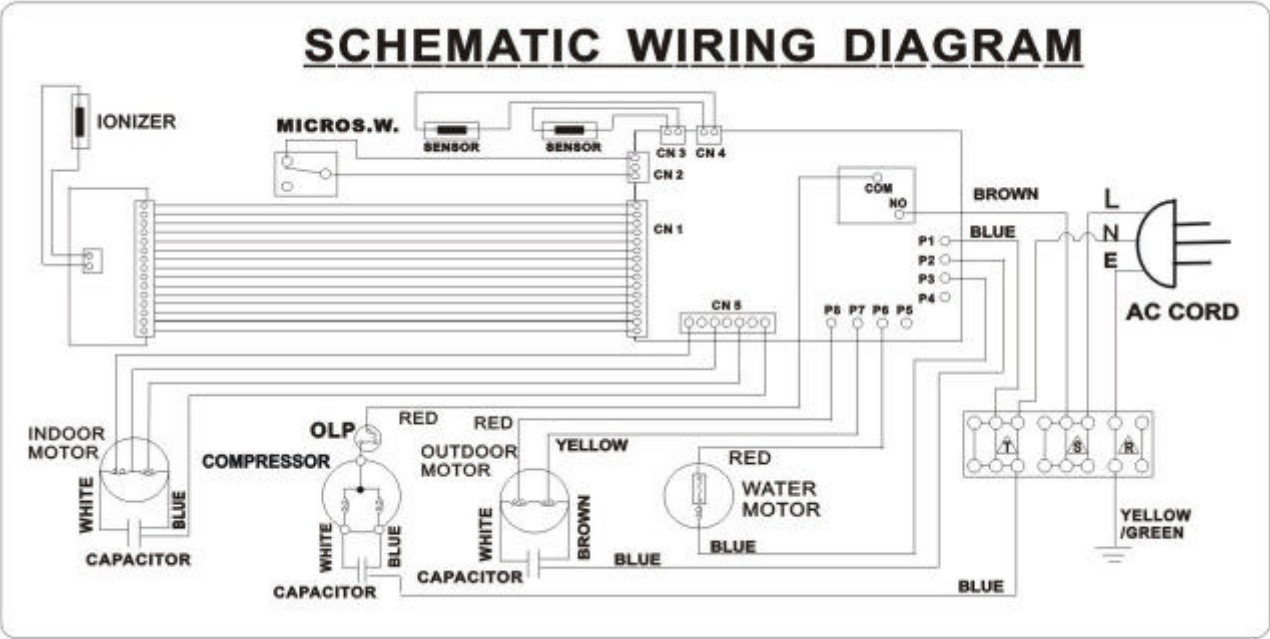
AIR CONDITIONER

ITEM		UNIT	TAD-T32G
OUTER DIMENSION		mm	508W*915H*418D
REFERENTIAL USING AREA		m ²	18~24
RATED VOLTAGE		V/Hz	115/60
RUNNING VOLTAGE		V	104 127
COOLING CAPACITY		B.T.U.	12000
DEHUMIDIFYING CAPACITY		L/H	2.0
RUNNING CURRENT		A	10.5
POWER CONSUMPTION		W	1185
INDOOR AIR VOLUME		m ³ /hr	420
COMPRESSOR	MODEL		2P15S126C1A
	INPUT POWER	W	955
	OPERATING CYCLE	uF/V	40/250
	PROTECTOR		MRA98695
	LOCKED ROTOR AMPS	A	8.4
INDOOR MOTOR	MODEL		LS-23T3-6P
	POWER INPUT	W	70
	OPERATING CYCLE	uF/V	8.0/250
OUTDOOR MOTOR	MODEL		LS-53T1-4P
	POWER INPUT	W	90
	OPERATING CYCLE	uF/V	9.0/250
TURBINE FAN MOTOR	MODEL		WT-15T1-02
	POWER INPUT	W	12
CAPILLARY		mm	2.6(O.D.)*1.6(I.D.)*1000(L) × 1
EVAPORATOR			3R14S17FPI
CONDENSER			3R16S19FPI
REFRIGERANT		R-22/g	620
WEIGHT		Kg	37

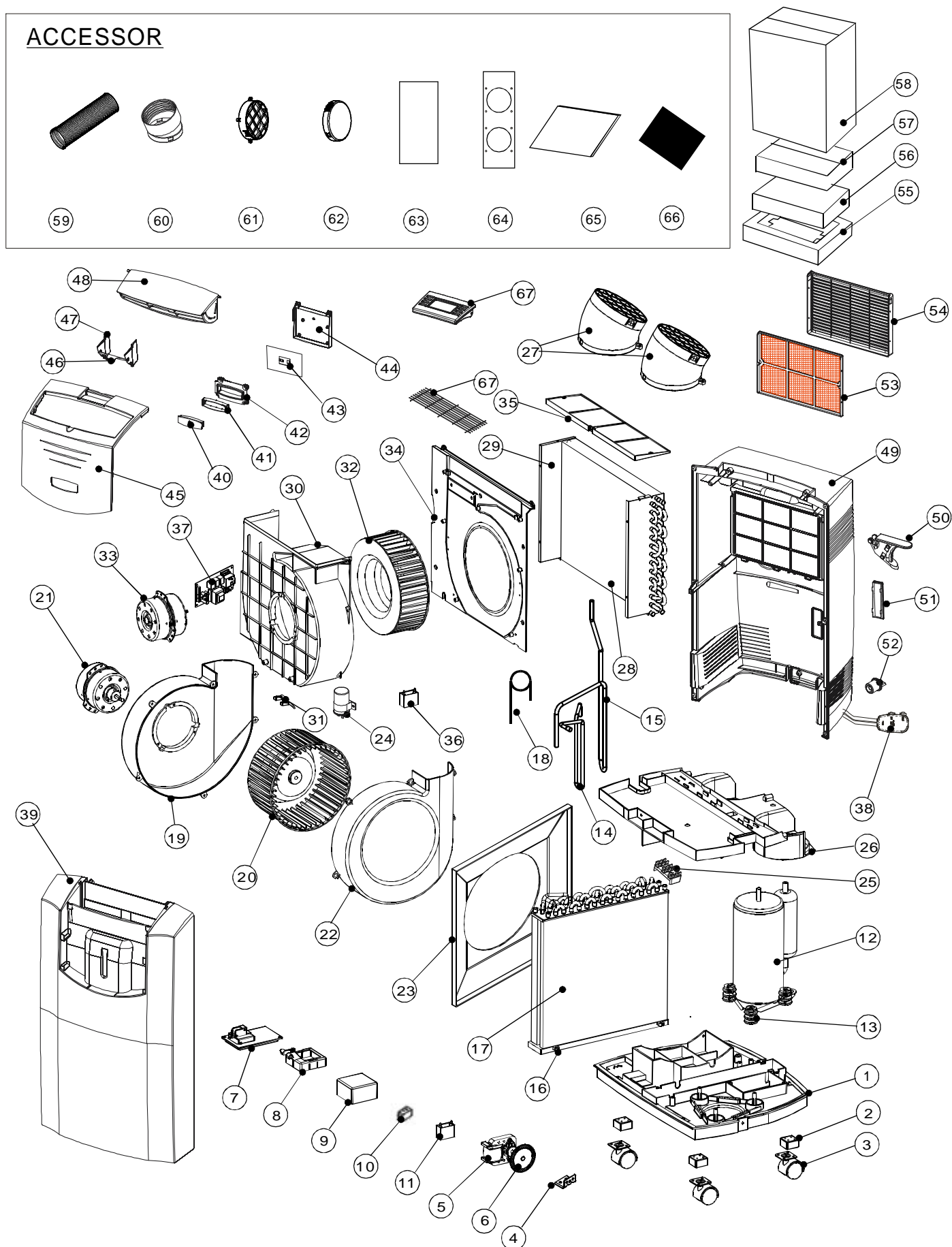
REFRIGERATOR SYSTEM DIAGRAM



SCHEMATIC WIRING DIAGRAM



ACCESSORY



PARTS LIST

TOYOTOMI TAD-T32G

NO	MATERIAL CODE	PARTS NAME	QUANTITY	PRICE
1	A4805-030-A-11	BASE PAN	1	
2	A5812-510-A-22	FIX TURE	4	
3	A7402-020	TURNING WHEEL	4	
4	A5802-440	STRIKE	1	
5	A3001-240	FAN MOTOR (WT-15T1-02)	1	
6	A5311-030-A-22	BLADE	1	
7	A5408-050-A-11	DRAIN BUCKET COVER	1	
8	A5405-010-H-11	TANK LID	1	
9	A5404-030	FLOAT	1	
10	A2506-020	MICRO SWITCH	1	
11	A2509-410	CAPACITOR (9uF/250V)	1	
12	A3202-710	COMPRESSOR ASS'Y (2P15S126C1A)	1	
13	A5600-090	RUBBER	3	
14	A6208-780	DISCHARGE PIPE	1	
15	A6227-950	SUCTION PIPE	1	
16	A3416-600-AH-11	SIDE PANEL	1	
17	A3422-100	CONDENSER ASS'Y	1	
18	A6204-240	CAPILLARY TUBE	1	
19	A5301-170-AH-22	FAN CASING	1	
20	A5304-090-AH-22	BLOWER WHEEL	1	
21	A3001-260	FAN MOTOR (LS-53T1-4P)	1	
22	A5301-190-AH-22	FAN CASING	1	
23	A5312-020-AH-22	FAN CASING COVER	1	
24	A2509-080	CAPACITOR (40uF/250V)	1	
25	A2525-020	TERMINAL BLOCK	1	
26	A5702-010-A-22	PLATE	1	
27	A5812-180-H-F	FIX TURE	2	
28	A3419-170	EVAPORATOR ASS'Y	1	
29	A3416-610-AH-11	SIDE PLANK	1	
30	A5301-210-AF-22	FAN CASING	1	
31	A7319-010	IONIZER	1	
32	A5304-110-A-22	BLOWER WHEEL	1	
33	A3000-540	FAN MOTOR (LS-23T3-6P)	1	
34	A5812-190-A-22	FIX TURE	1	
35	A4206-130-H-22	TOP COVER PLATE	1	

PARTS LIST

TOYOTOMI TAD-T32G

NO	MATERIAL CODE	PARTS NAME	QUANTITY	PRICE
36	A2509-130	CAPACITOR (8uF/250V)	1	
37	A2516-410	CONTROL BOARD	1	
38	A3700-750	POWER SUPPLY CORD COMPLETE	1	
39	A4201-370-A-DV	FRONT PANEL	1	
40	A6101-350-X-AQ	COVER	1	
41	A5812-370-A-22	FIX TURE	1	
42	A2536-020-X-AF	LIGHT BOARD	1	
43	A2520-650	PC BOARD	1	
44	A5812-390-A-22	FIX TURE	1	
45	A4238-350-A-DR	DISCHARGE GRILLE	1	
46	A4251-250-A-DR	BAR	1	
47	A4243-560-A-DR	VAN AIR DEFLECTOR	2	
48	A4243-550-A-DR	VAN AIR DEFLECTOR	1	
49	A4219-470-A-F	REAR PANEL	1	
50	A7401-110-A-F	POWER WIRINGBUCKLE	1	
51	A6101-390-A-F	COVER	1	
52	A7307-060	SOFT CAP	1	
53	A7301-310-A-F	AIR FILTER	1	
54	A4262-050-A-F	INTAKE GRILLE	1	
55	A7107-950	SHOCK ABSORBER	1	
56	A7107-940	SHOCK ABSORBER	1	
57	A7010-730	CARTON	1	
58	A7015-440	CARTON	1	
59	A6200-070	EXHAUSTHOSE	2	
60	A5815-090-H-BS	HEAT EXHAUST HOSE CONNECTOR	4	
61	A5812-210-H-BS	FIX TURE	2	
62	A6101-230-H-BS	COVER	2	
63	A5700-200	PLATE	2	
64	A5700-210	PLATE	1	
65	A7212-050	FILTER	1	
66	A7212-060	CARBON FILTER	1	
67	A2529-400	REMOTE CONTROLASS'Y	1	
68				
69				
70				